

-- 8011306 --.

Page 12, line 35, after "methods" replace the handwritten insert with -- and in immunomodulation. --.

Page 19, line 35, after "50" replace the handwritten insert with -- nl --.

Page 21, between lines 10 and 11 replace the handwritten insert with -- Although the RNA from VGS cells appeared to contain only one IFN- $\beta$ -related mRNA fraction, RNA from other cell lines appears to contain at least another, and perhaps more, IFN- $\beta$ -related mRNA fractions. This latter mRNA does not hybridize to the former mRNA but does code for a protein that displays IFN- $\beta$  activity and is inactivated by antisera to authentic IFN- $\beta$ . The cloning and expression of such mRNA and other mRNA's which are related to it by hybridization are also part of this invention because the processes hereinafter described are applicable thereto. --; and

line 23, delete "nor" and substitute therefor -- and --.

Page 33, line 6, delete "recyclized" and substitute therefor -- recircularized --.

Page 40, line 30, delete "in" and substitute therefor -- on a --.

Page 45, line 34, after "50" (first occurrence) replace the handwritten insert with --  $\mu$  --.

Page 50, line 7, replace "supra" with -- Gene, 10, pp. 11-15 (1980) --;

Page 51, line 15, delete "complied" and substitute therefor -- compiled --.

Page 52, line 10, after "Fig. 5", replace the handwritten insert with -- and Fig. 8 --.

Page 56, line 31, replace "HFIF-6" with -- HFIF6 --;

line 32, replace "HFIF-7" with -- HFIF7 --.

Page 57, line 2, replace "HFIF-6" with -- HFIF6 --;

line 3, replace "HFIF-7" with -- HFIF7 --;

line 19, replace "HFIF-6" with -- HFIF6 --;

line 23, replace "HFIF-6" with -- HFIF6 --;

line 24, replace "HFIF-7" with -- HFIF7 --;

line 37, replace "HFIF-6" with -- HFIF6 --.

Page 57, line 34, delete "colinear" and substitute therefor -- colinearly --.

Page 63, line 18, after "acid" replace the handwritten insert with -- 2 --; and

line 21, after "the" replace the handwritten insert with -- presence -- and after "deoxy-" replace the handwritten insert with -- nucleoside-tri --.

Page 65, line 16, after "the" replace the handwritten insert with -- hybrid --.

Page 67, line 34, delete "rigorous" and substitute therefor -- vigorous --.

Page 68, line 24, delete "Tirotor" and substitute therefor -- Ti rotor --.

Page 74, line 32, replace "HFIF-6" with -- HFIF6 --.

Page 75, line 12, replace "pHFIF-6" with -- pHFIF6 --.

Page 83, line 6, the former "lysis in boiling" should read -- boiling in -- on the basis of the handwritten deletion and insert.

Page 85, line 1, delete "pellt" and substitute therefor -- pellet --.

Page 88, line 23, after "extracts" replace the handwritten insert with -- obtained, for example, from induced

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M5219-pPLa-HFIF-67-12Δ19 or from induced

;<sup>2</sup> cont.

M5219-pPLC-HFIF-67-8. -- and delete "electrophesis" and  
substitute therefor -- electrophoresis --.

Page 90, line 32, delete "crries" and substitute  
therefor -- carries --.

Page 92, line 23, delete "specifically" and substitute  
therefor -- specificity --; and

between lines 24 and 25 replace the hand-  
written insert with -- One example of such improvement was  
obtained by inserting a DNA fragment of this invention including  
the DNA sequence coding for pre-IFN- $\beta$  into a cloning vehicle  
containing the late promoter and splicing sequences of SV40  
under the control of that promoter. Such construction in monkey  
cells yielded about  $10^4$  units/ml of processed IFN- $\beta$ . Similar  
constructions in other cloning vectors and eukaryotic cells are  
also envisioned herein. --.

Page 93, line 8, replace "pHFIF-21" with  
-- pHFIF21 --;

line 11, replace " $\lambda$ CH4A-gHFIF-1" with  
--  $\lambda$ CH4A-gHFIF1 --;

line 14, replace " $\lambda$ CH4A-gHFIF-1" with  
--  $\lambda$ CH4A-gHFIF1 --;

line 18, replace "pHFIF-21" with  
-- pHFIF21 --;

line 23, replace " $\lambda$ CH4A-gHFIF-1" with  
--  $\lambda$ CH4A-gHFIF1 --;

line 27, replace "p(325)-gHFIF-4" with  
-- p[325]-gHFIF4 --;

line 29, replace "pHFIF-21" with  
-- pHFIF21 --;